

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 April 2005 (21.04.2005)

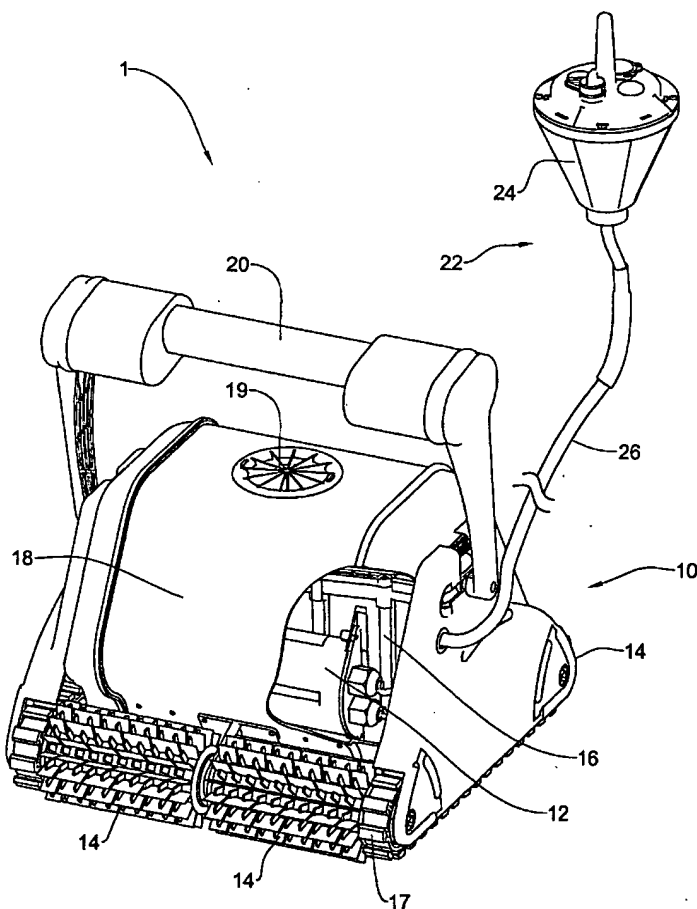
PCT

(10) International Publication Number
WO 2005/035909 A1

- (51) International Patent Classification⁷: **E04H 4/16** (74) Agent: **REINHOLD COHN AND PARTNERS**; P.O. Box 4060, 61040 Tel Aviv (IL).
- (21) International Application Number: PCT/IL2004/000949 (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 14 October 2004 (14.10.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/510,149 14 October 2003 (14.10.2003) US
- (71) Applicant (*for all designated States except US*): **MAYTRONICS LTD.** [IL/IL]; Kibbutz Yizrael, 19350 D.N. Kibbutz Yizrael (IL).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): **GARTI, Efraim** [IL/IL]; 8 Rakefet Street, 30900 Zichron Yaakov (IL).
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: CORDLESS POOL CLEANING ROBOT



(57) Abstract: A cleaning robot for a swimming pool has a body unit with a battery power pack, adapted to move along the floor and/or walls of the pool. The robot may comprise a tail portion adapted for floating on the surface of the pool. The tail portion may have a float user interface. The robot may have a memory adapted to store a certain orientation of the robot and a controller to align the robot's orientation in accordance with the stored orientation. The robot may further be adapted to perform straight and stepped laps, to move in known mutually angled directions independently of the swimming pool's shape. The robot may perform a plurality of cleaning modes.



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*